

Title (en)  
Prism matrix with random phase structures

Title (de)  
Prismamatrix mit Zufallsphasenstrukturen

Title (fr)  
Matrice de prisme avec structures de phase aléatoires

Publication  
**EP 1916551 A1 20080430 (EN)**

Application  
**EP 07254192 A 20071023**

Priority  
US 55322206 A 20061026

Abstract (en)  
An improvement to prism films for displays that reduces the Moiré pattern effect, and also provides a light diffusion function. A prism film with many small prism units is used. The pattern of the prism film is varied, ideally with a random or pseudo random variation. The variation can be in any, some or all aspects of the prism structure. In particular, the thickness and position of the prism elements can be varied.

IPC 8 full level  
**G02B 6/00** (2006.01)

CPC (source: EP US)  
**G02B 5/045** (2013.01 - EP US); **G02B 6/0053** (2013.01 - EP US)

Citation (applicant)  
• US 4542449 A 19850917 - WHITEHEAD LORNE A [CA]  
• US 6091547 A 20000718 - GARDINER MARK EDWARD [US], et al  
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Citation (search report)  
• [XY] WO 2006073616 A1 20060713 - 3M INNOVATIVE PROPERTIES CO [US]  
• [Y] EP 1557700 A1 20050727 - GEN ELECTRIC [US]  
• [A] US 2004085749 A1 20040506 - PARKER JEFFERY R [US], et al  
• [A] US 6454452 B1 20020924 - SASAGAWA TOMOHIRO [JP], et al

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
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**EP 07254192 A 20071023**; JP 2007303687 A 20071026; US 55322206 A 20061026